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Strong and weak maximal extensions of $\bar{\partial}$ on the Hartogs triangle

The Hartogs triangle $\mathbf{T} := \{(z, w) \in \mathbb{C}^2 : |z| < |w| < 1\}$ has been an important source of (counter-) examples in several complex variables. I will discuss recent work with J. Flynn, G. Lu, and M.-C. Shaw on properties of the Sobolev space H^1 and the maximal extensions of the Cauchy-Riemann operator $\bar{\partial}$ on \mathbf{T} . It turns out that despite the singularity at the origin, \mathbf{T} shares many properties of Lipschitz domains.